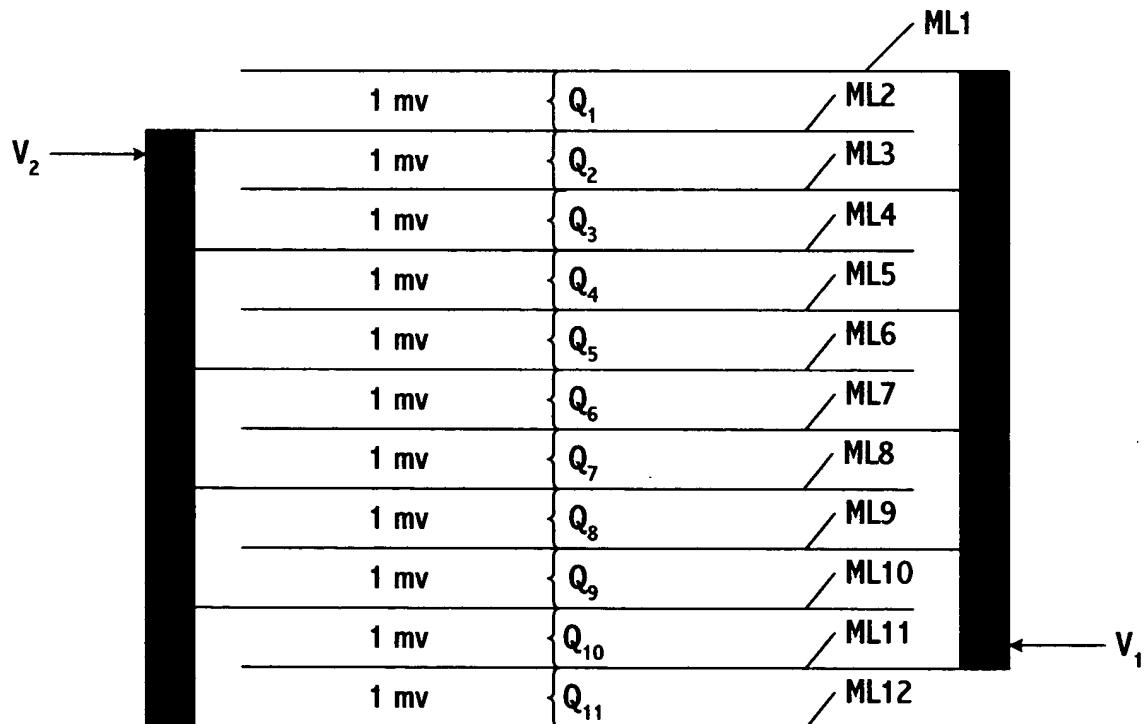


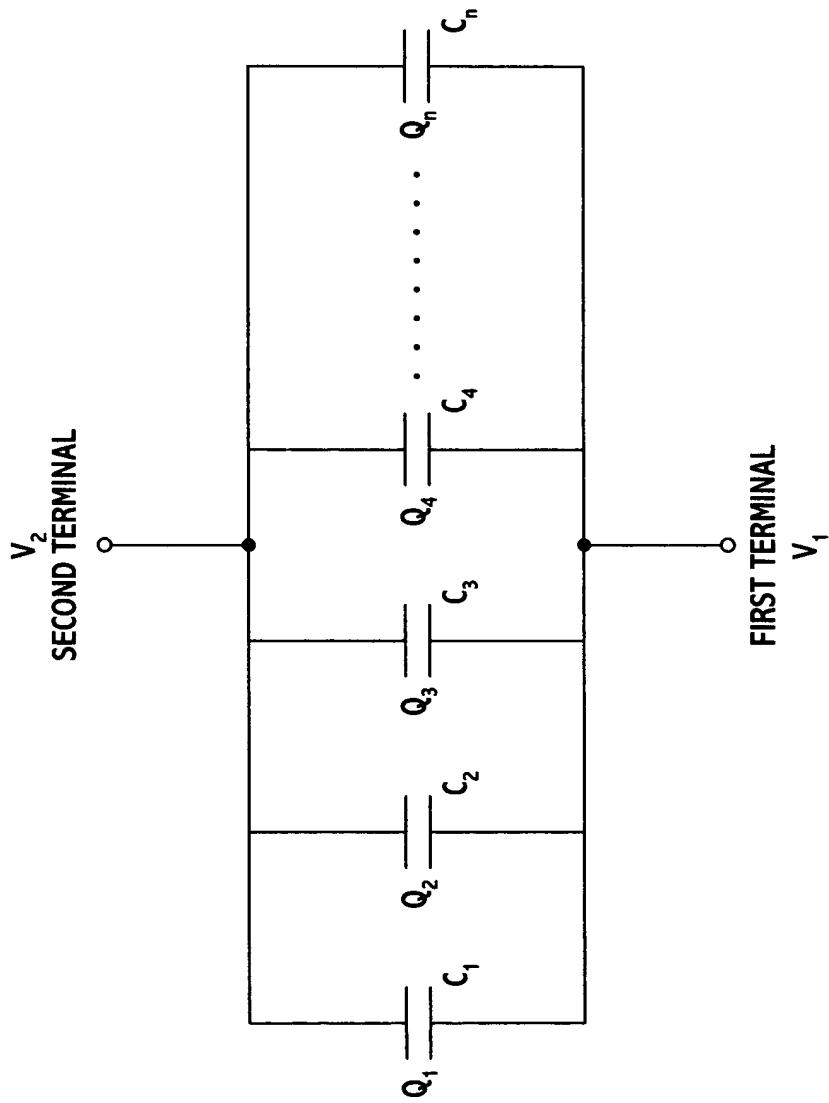
FIG. 1



$$Q_{\text{TOTAL}} = Q_1 + Q_2 + Q_3 + Q_4 + Q_5 + Q_6 + Q_7 + Q_8 + Q_9 + Q_{10} + Q_{11}$$

FIG. 2

FIG. 3



$$Q = CV$$

$$C_{\text{TOTAL}} = C_1 + C_2 + C_3 + \dots + C_n$$

$$\Delta V = V_2 - V_1$$

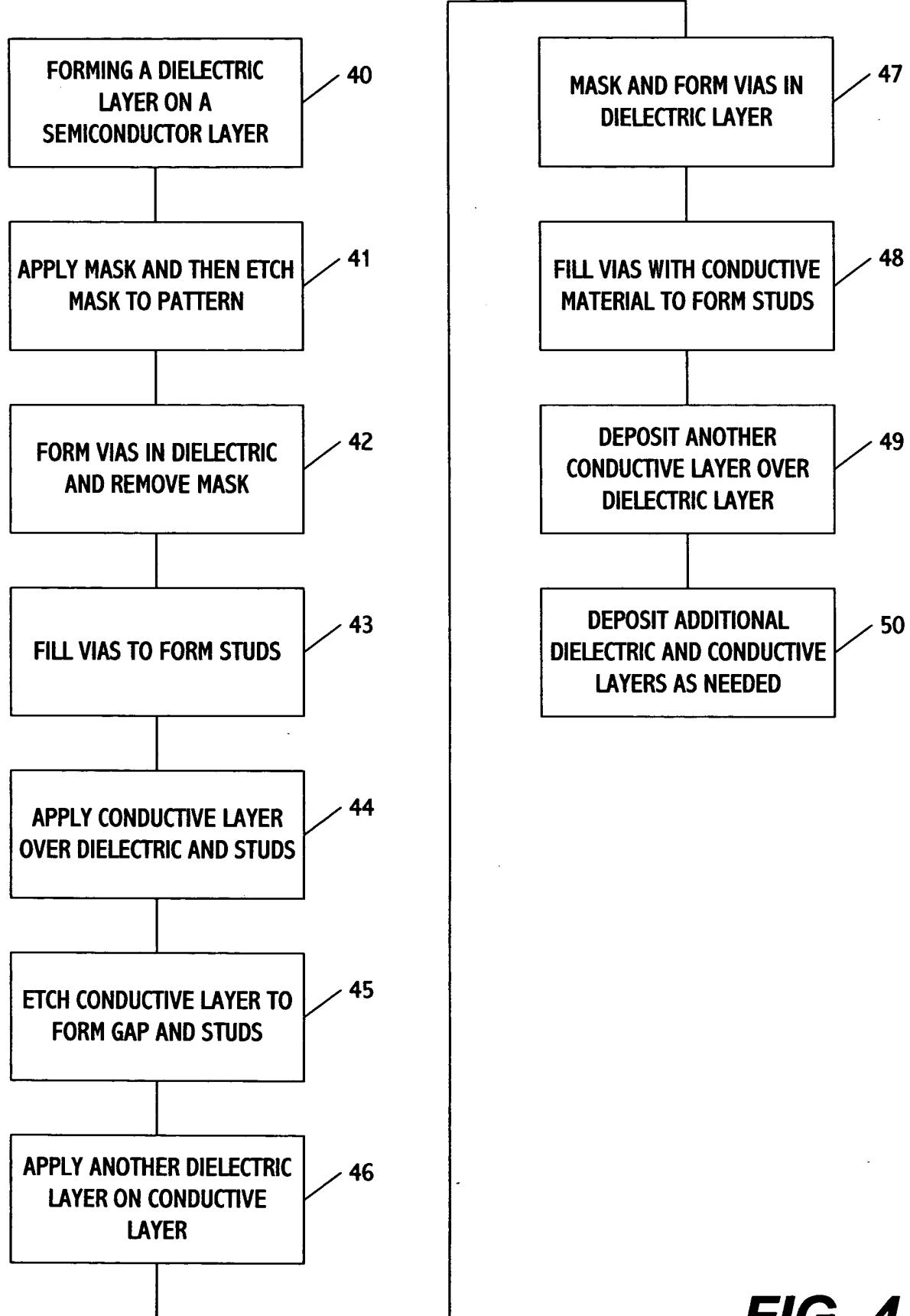


FIG. 4

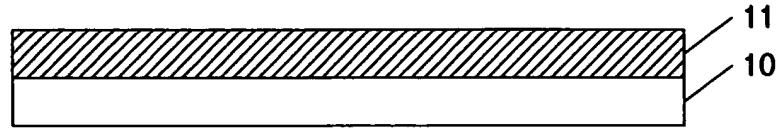


FIG. 5(a)

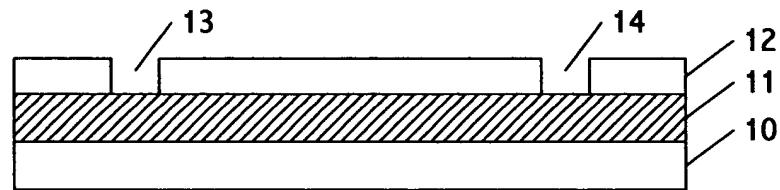


FIG. 5(b)

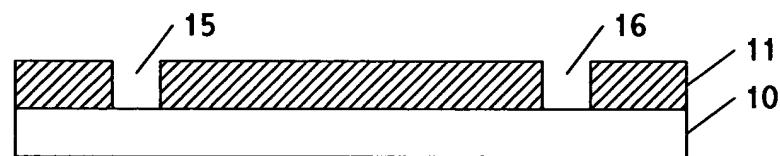


FIG. 5(c)



FIG. 5(d)

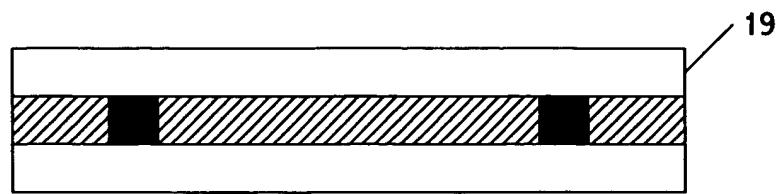


FIG. 5(e)

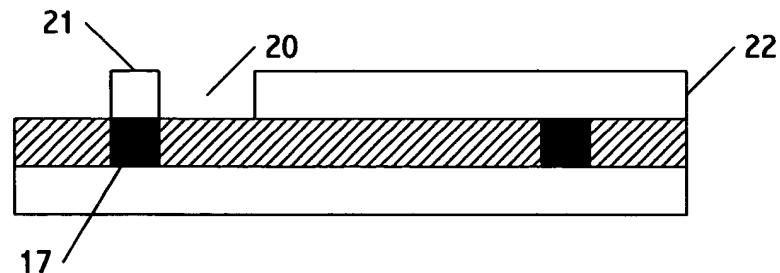


FIG. 5(f)

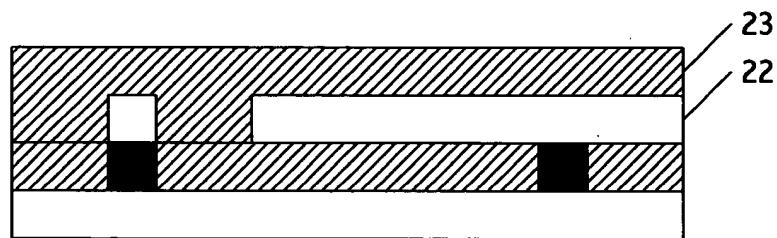


FIG. 5(g)

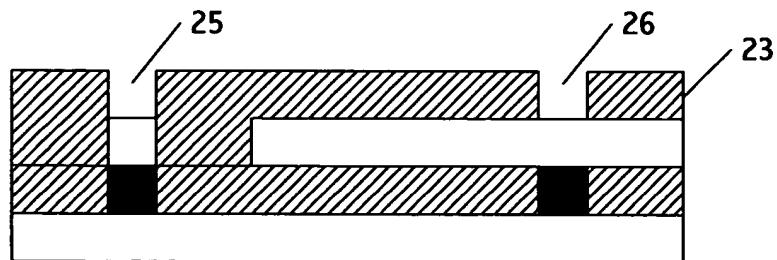


FIG. 5(h)

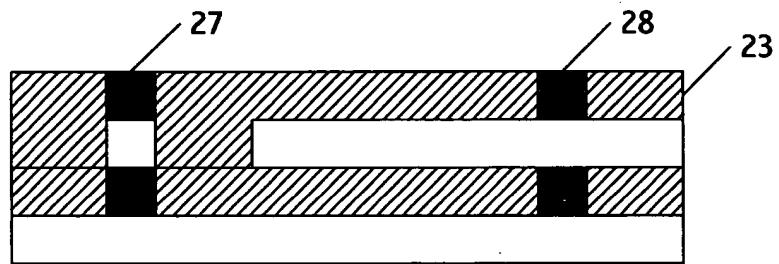


FIG. 5(i)

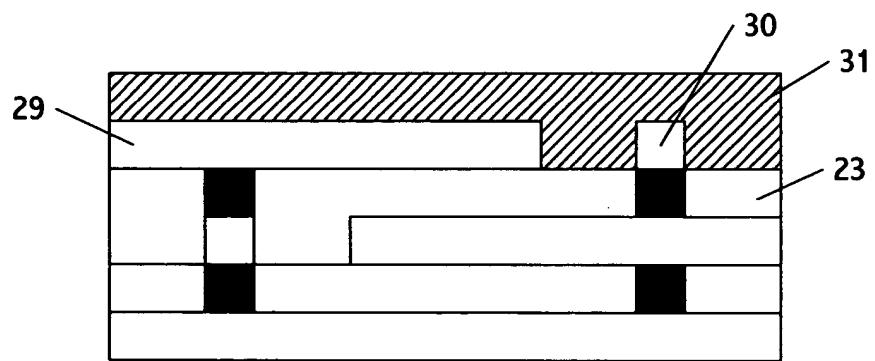


FIG. 5(j)

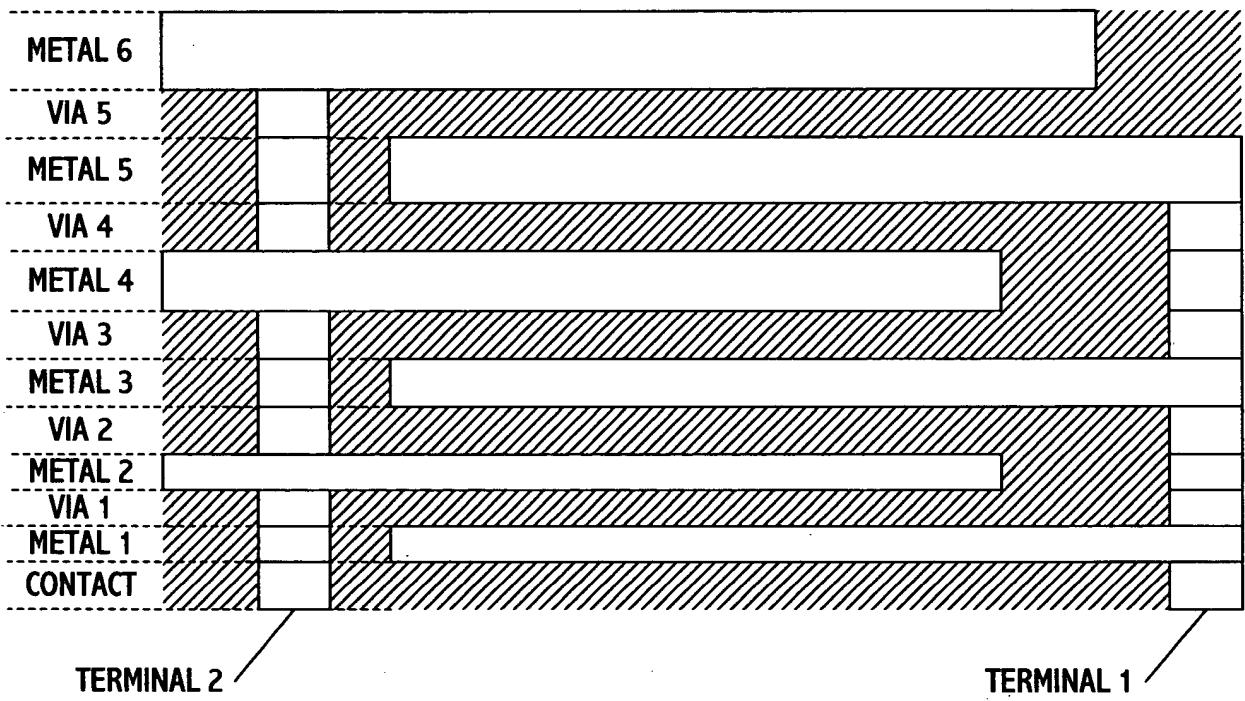


FIG. 5(k)

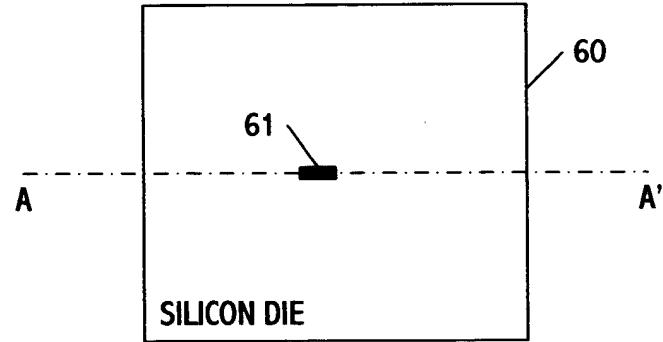


FIG. 6(a)

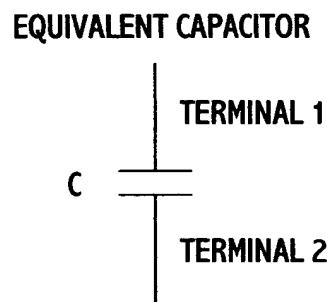
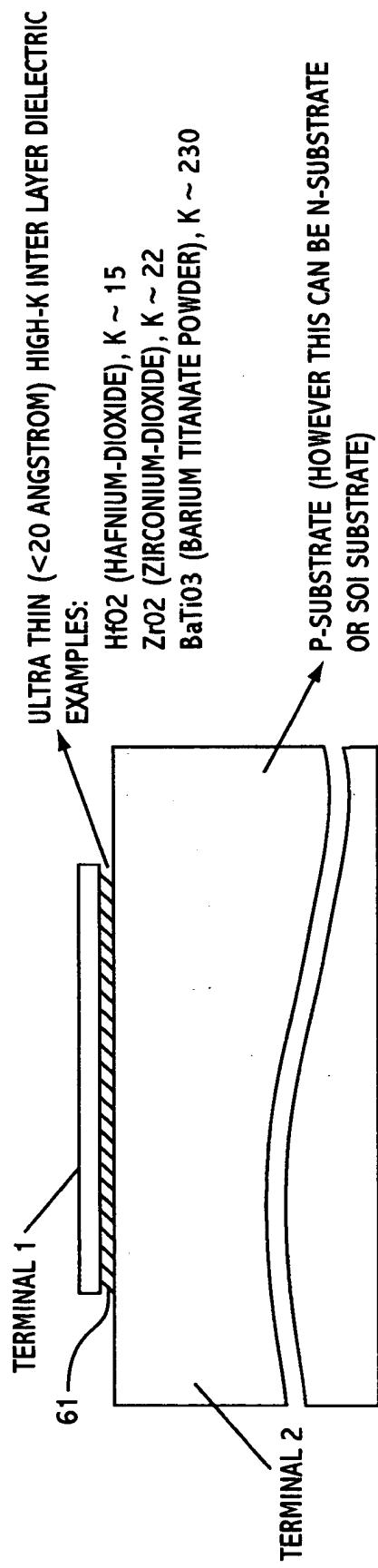


FIG. 6(b)

FIG. 6(c)



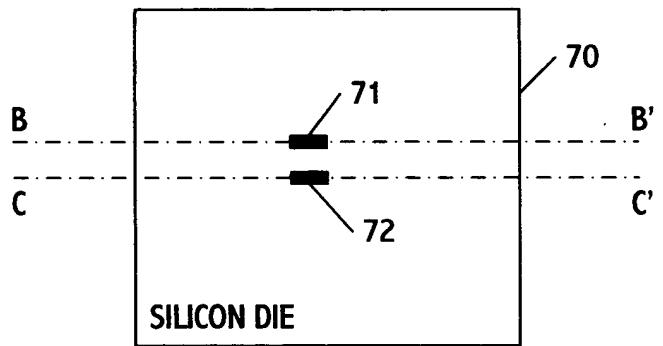


FIG. 7(a)

EQUIVALENT CAPACITOR

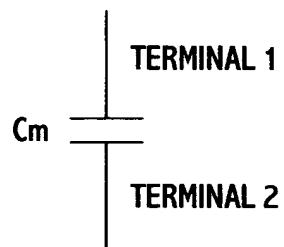


FIG. 7(b)

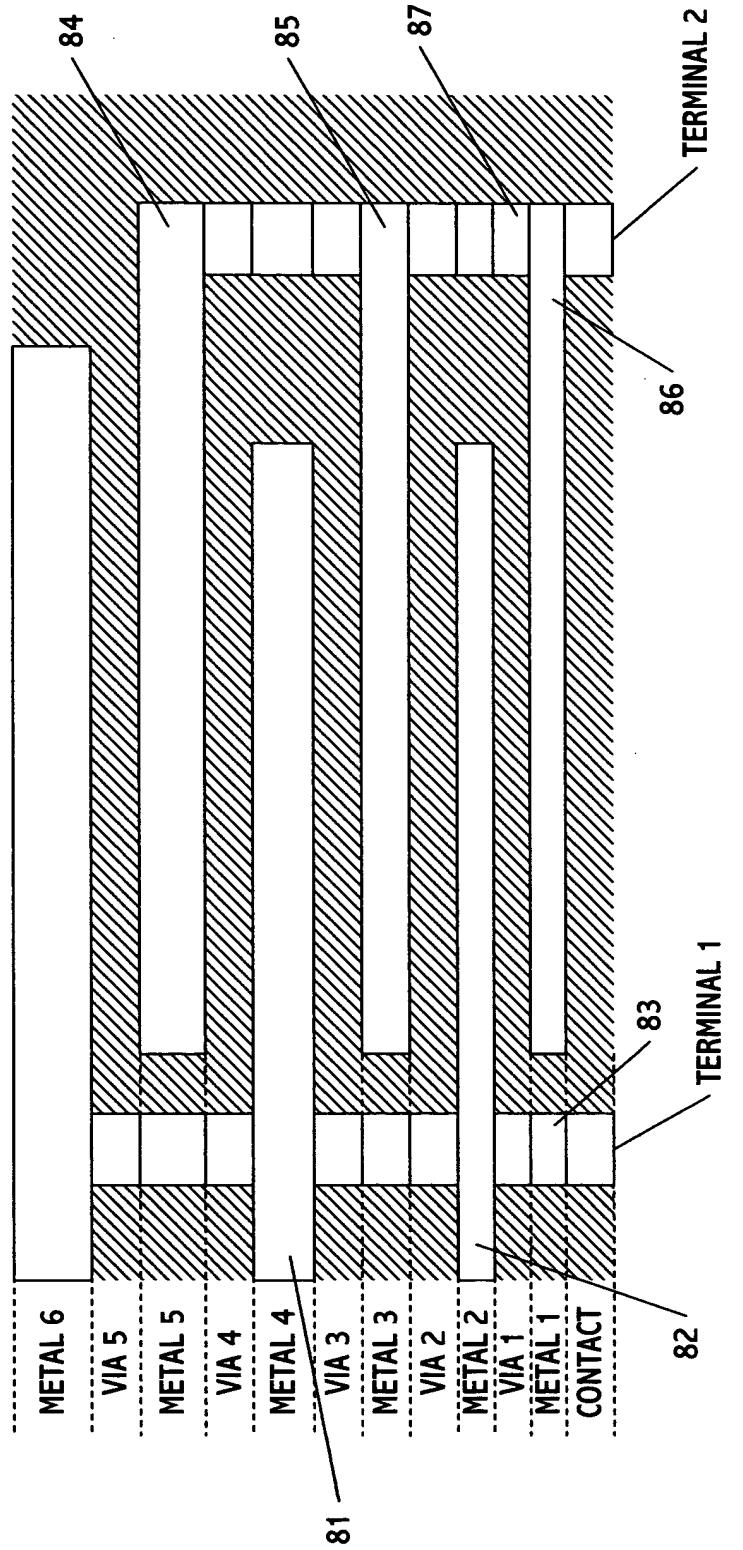


FIG. 8(a)

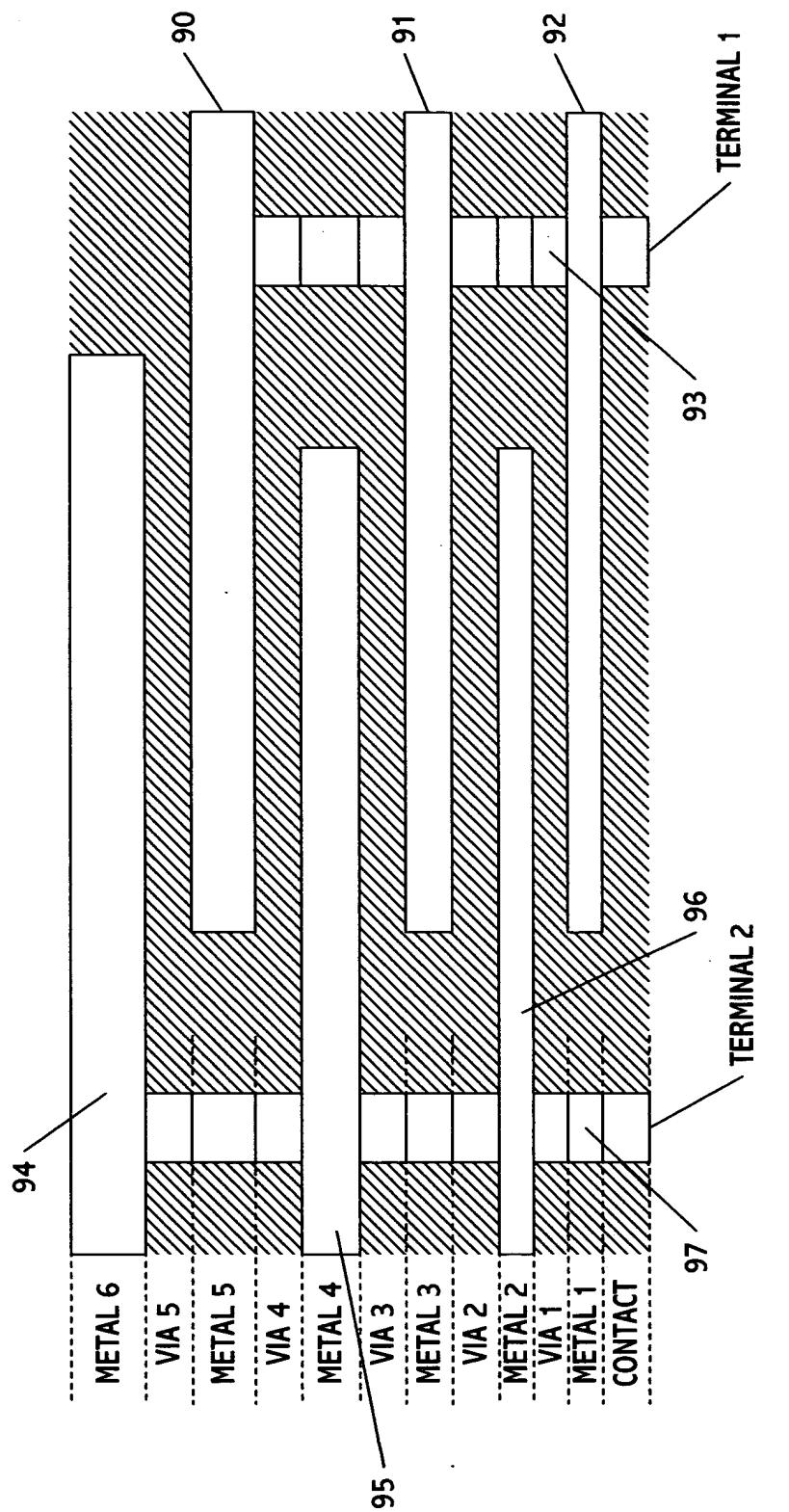


FIG. 8(b)

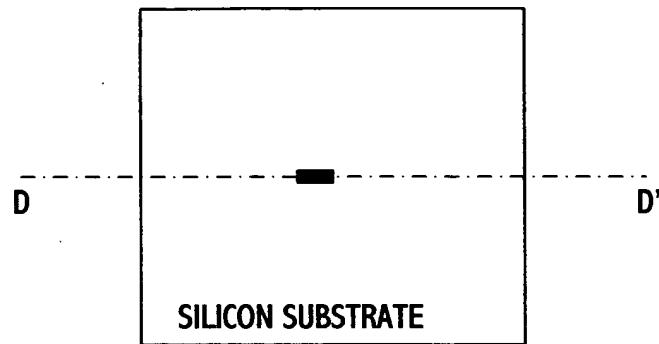


FIG. 9(a)

EQUIVALENT CAPACITOR

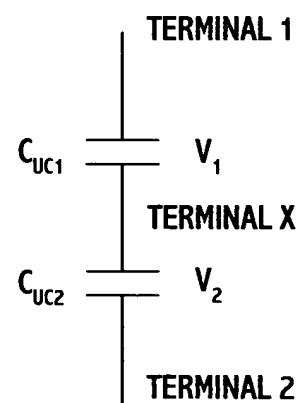
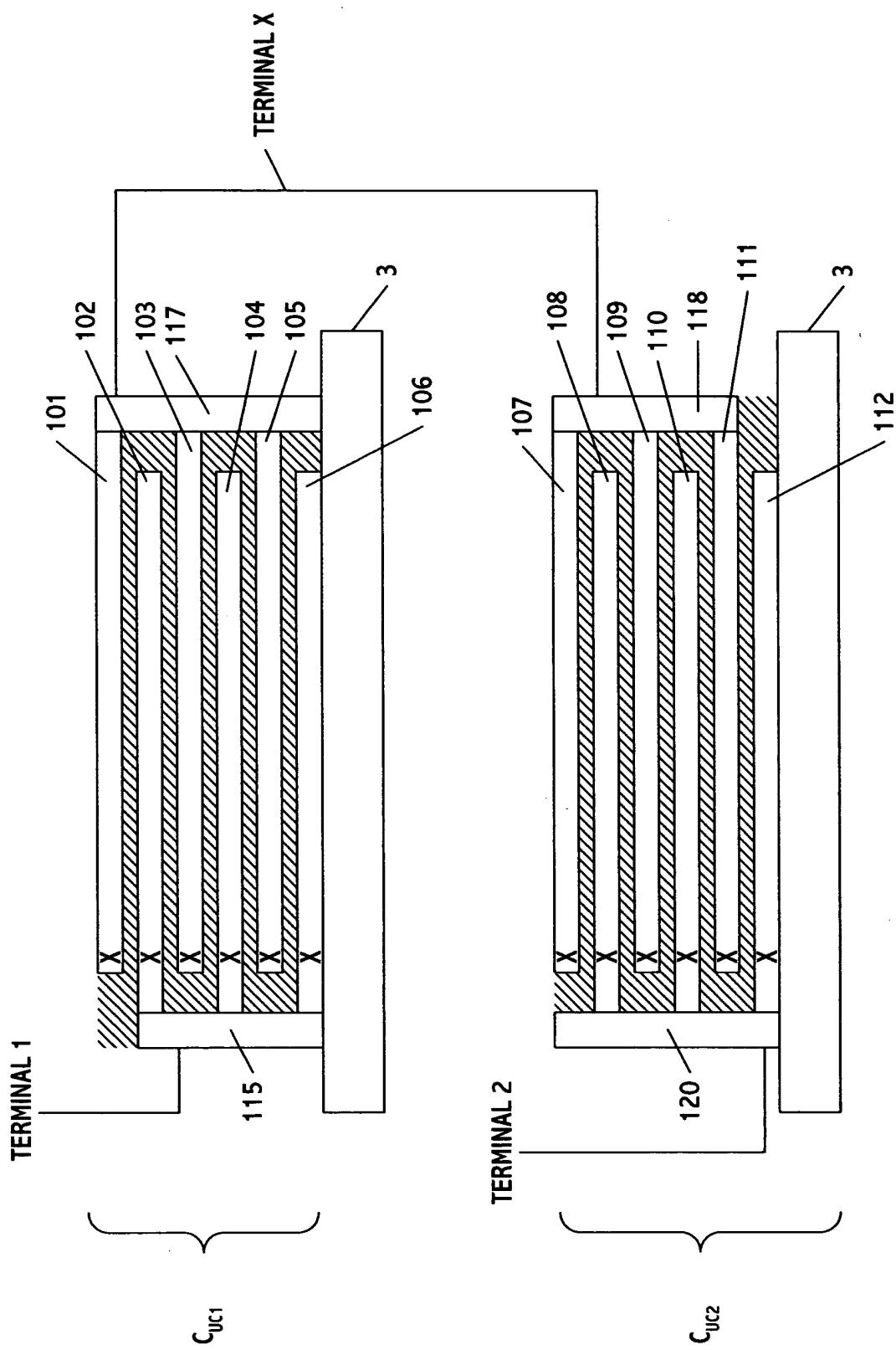
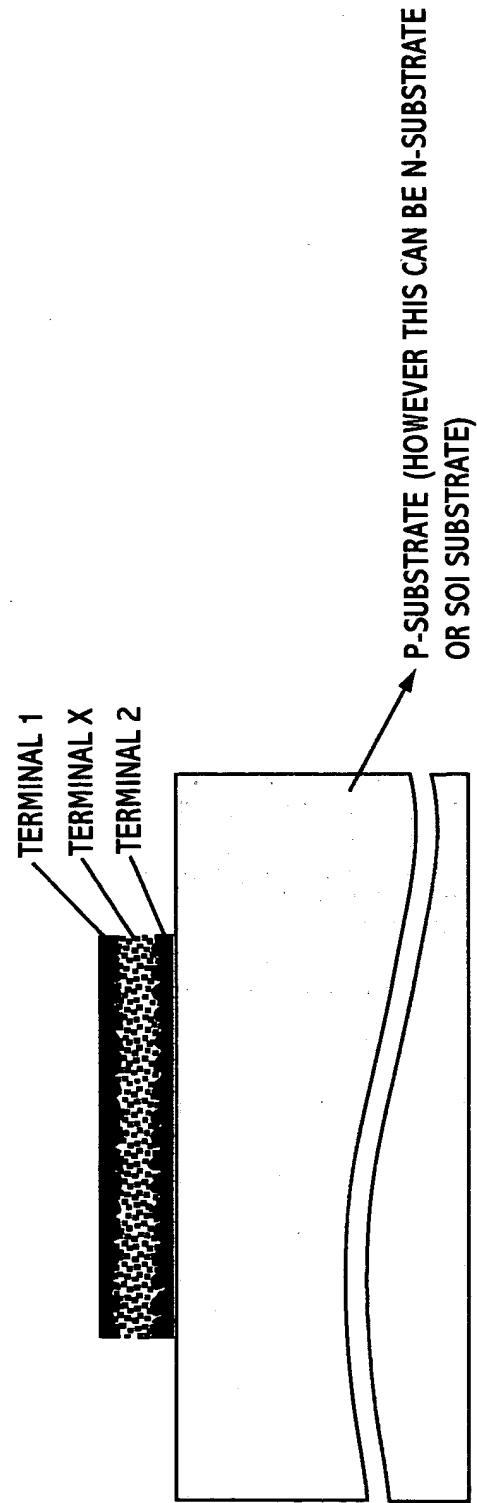


FIG. 9(b)

FIG. 10





ELECTRODE (TERMINAL 1) - EXAMPLE: POROUS CARBON OR DOPED SILICON. CAN BE CONDUCTIVE CARBON OR SILICON NANOTUBE

ELECTROLYTE (TERMINAL X) - EXAMPLE: POTASSIUM HYDROXIDE

ELECTRODE (TERMINAL 2) - EXAMPLE: POROUS CARBON OR DOPED SILICON. CAN BE CONDUCTIVE CARBON OR SILICON NANOTUBE

FIG. 11

EXAMPLE CROSS SECTION SHOWING STACKING OF MULTIPLE
SUBSTRATE TO INCREASE THE CAPACITANCE PER UNIT AREA

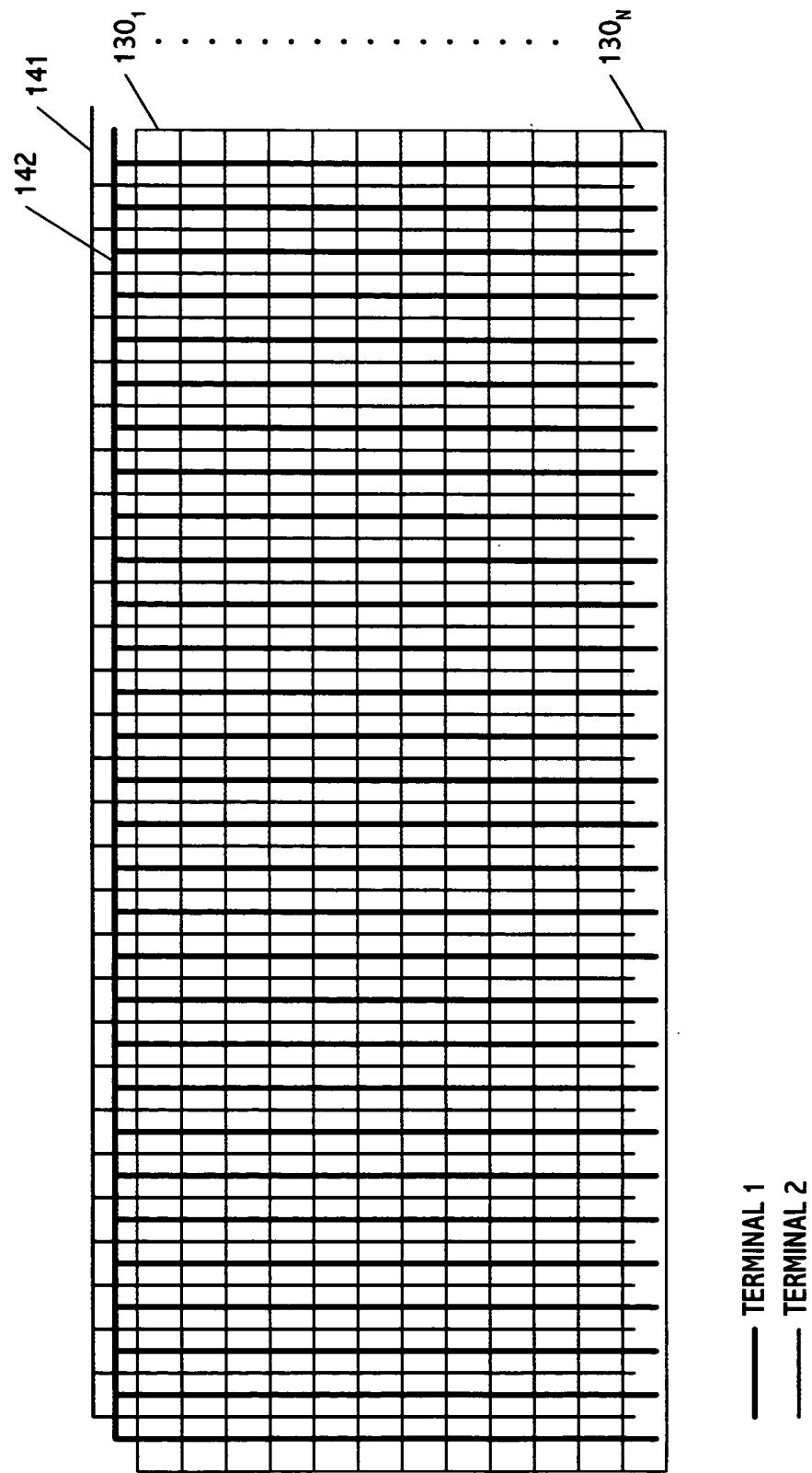


FIG. 12

**ENERGY EXTRACTION CIRCUIT
(INTEGRATED WITH THE CAPACITOR)**

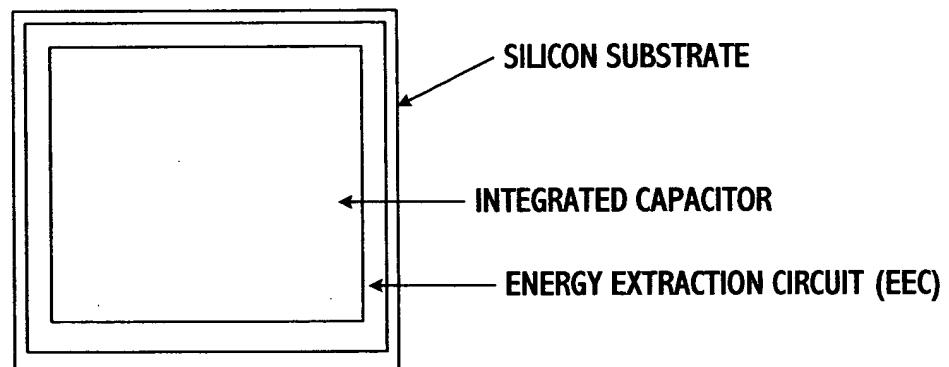


FIG. 13

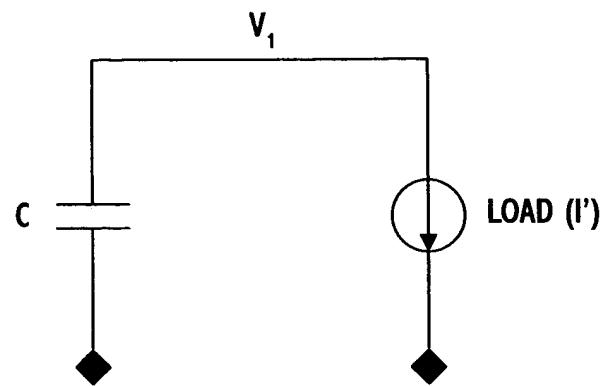


FIG. 14

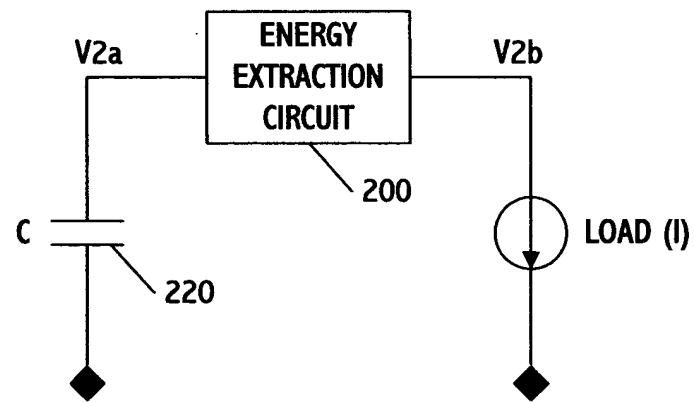


FIG. 16

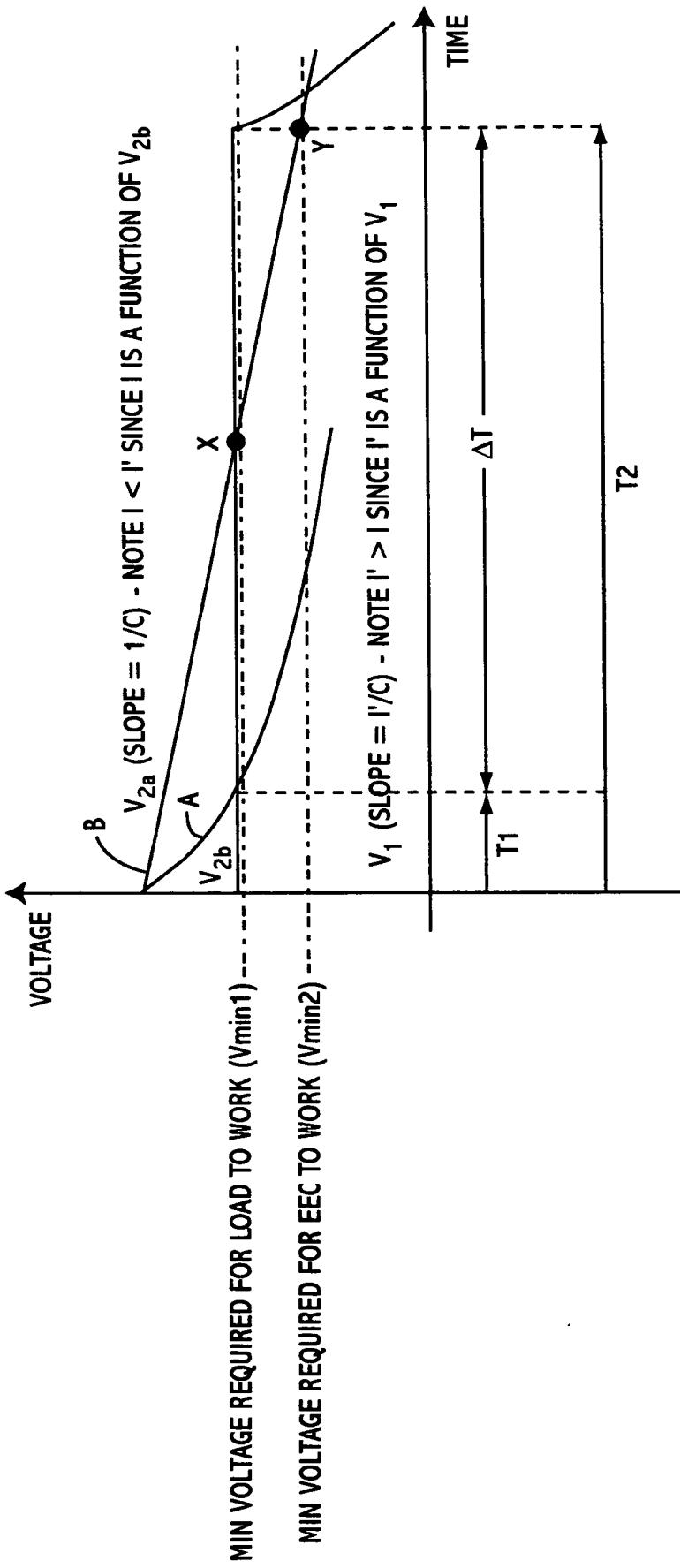
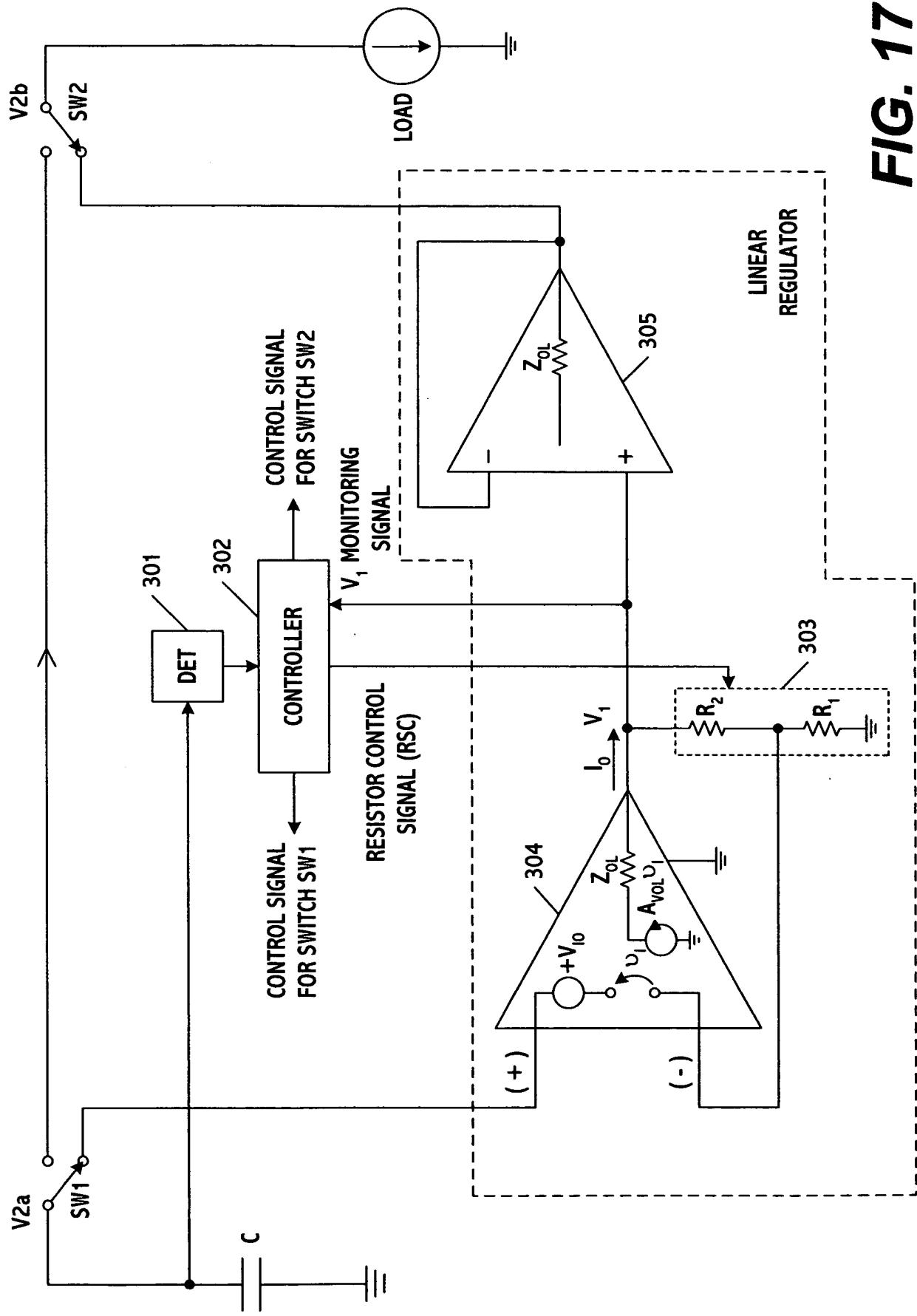


FIG. 15

T₁ - DURATION FOR WHICH THE CAPACITOR ENERGY CAN BE USED BY LOAD WITHOUT EEC

T₂ - DURATION FOR WHICH THE CAPACITOR ENERGY CAN BE USED BY THE LOAD WITH EEC

FIG. 17



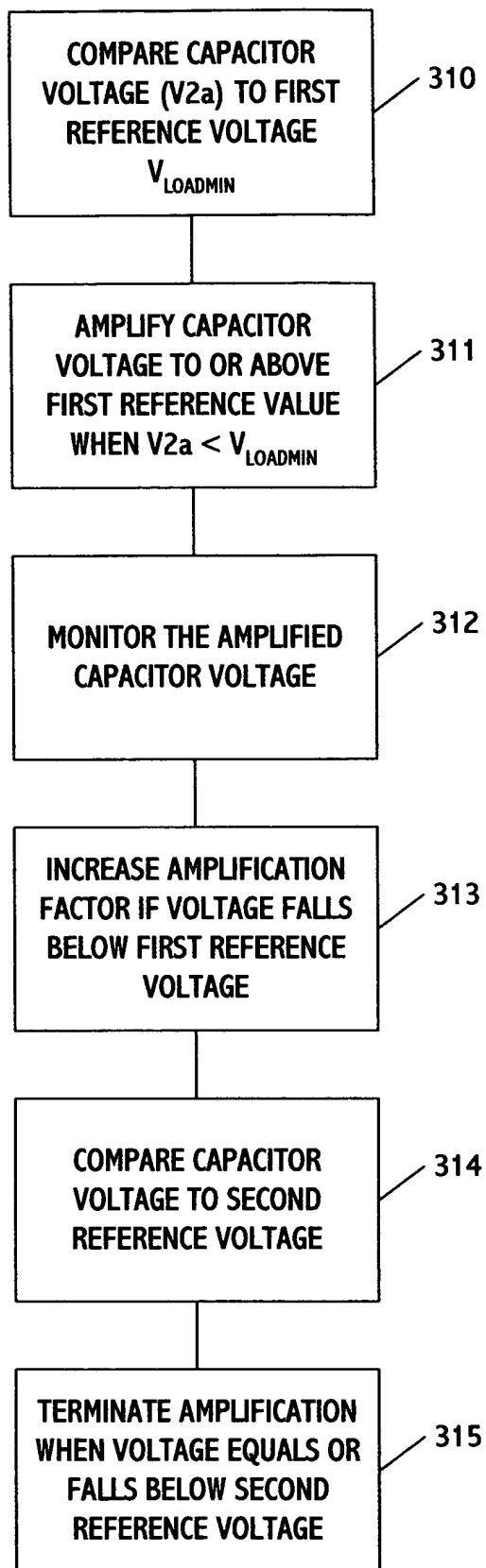
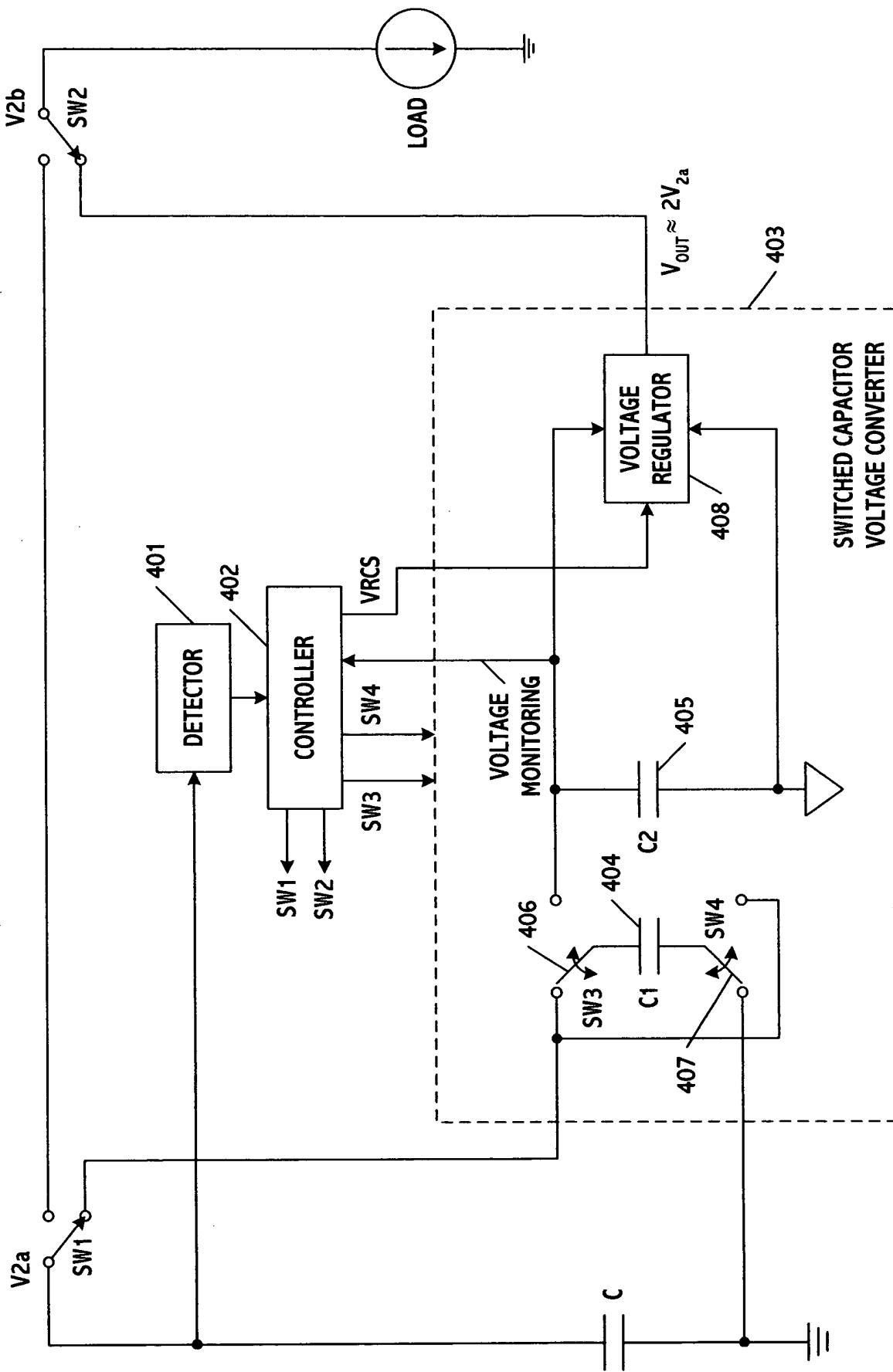


FIG. 18

FIG. 19



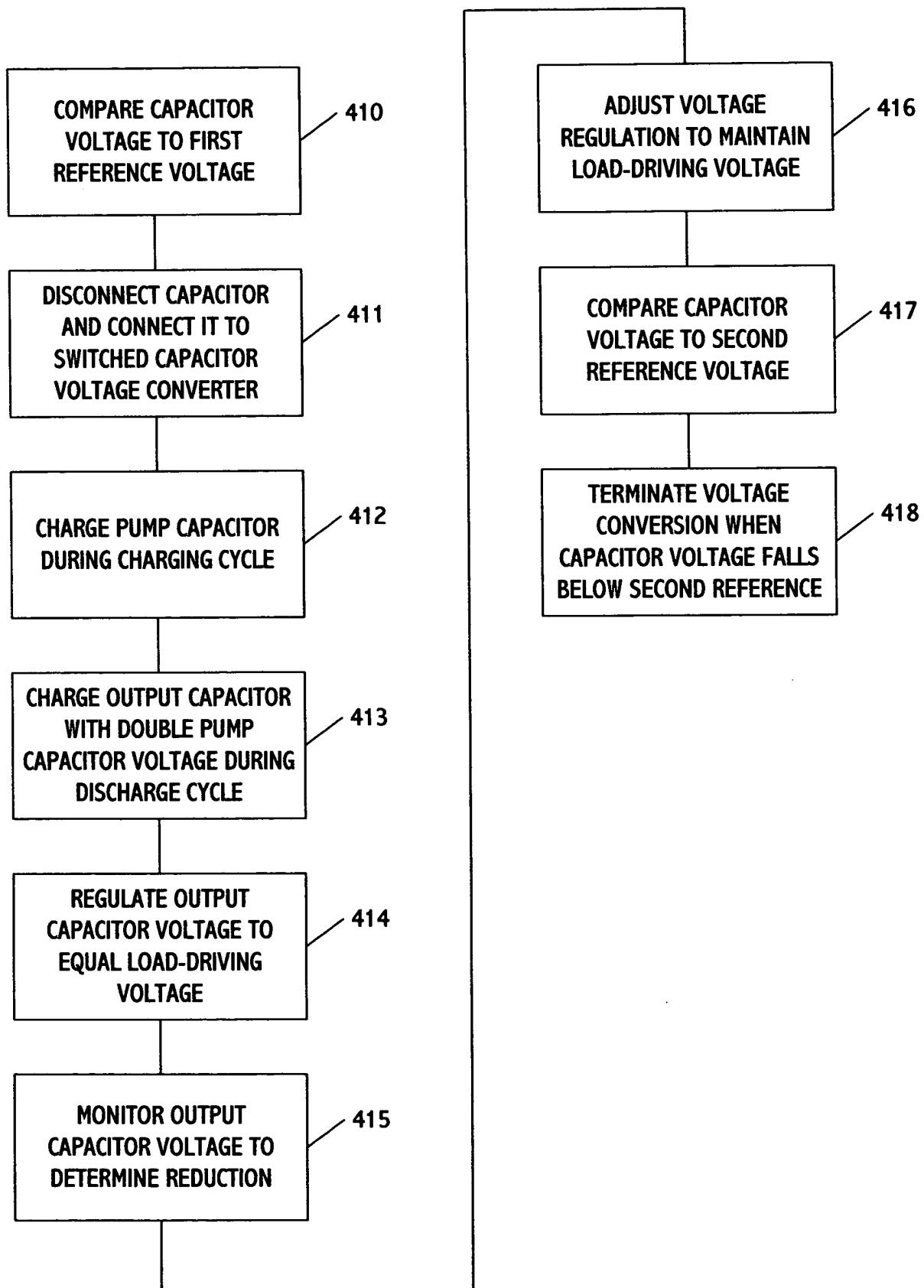
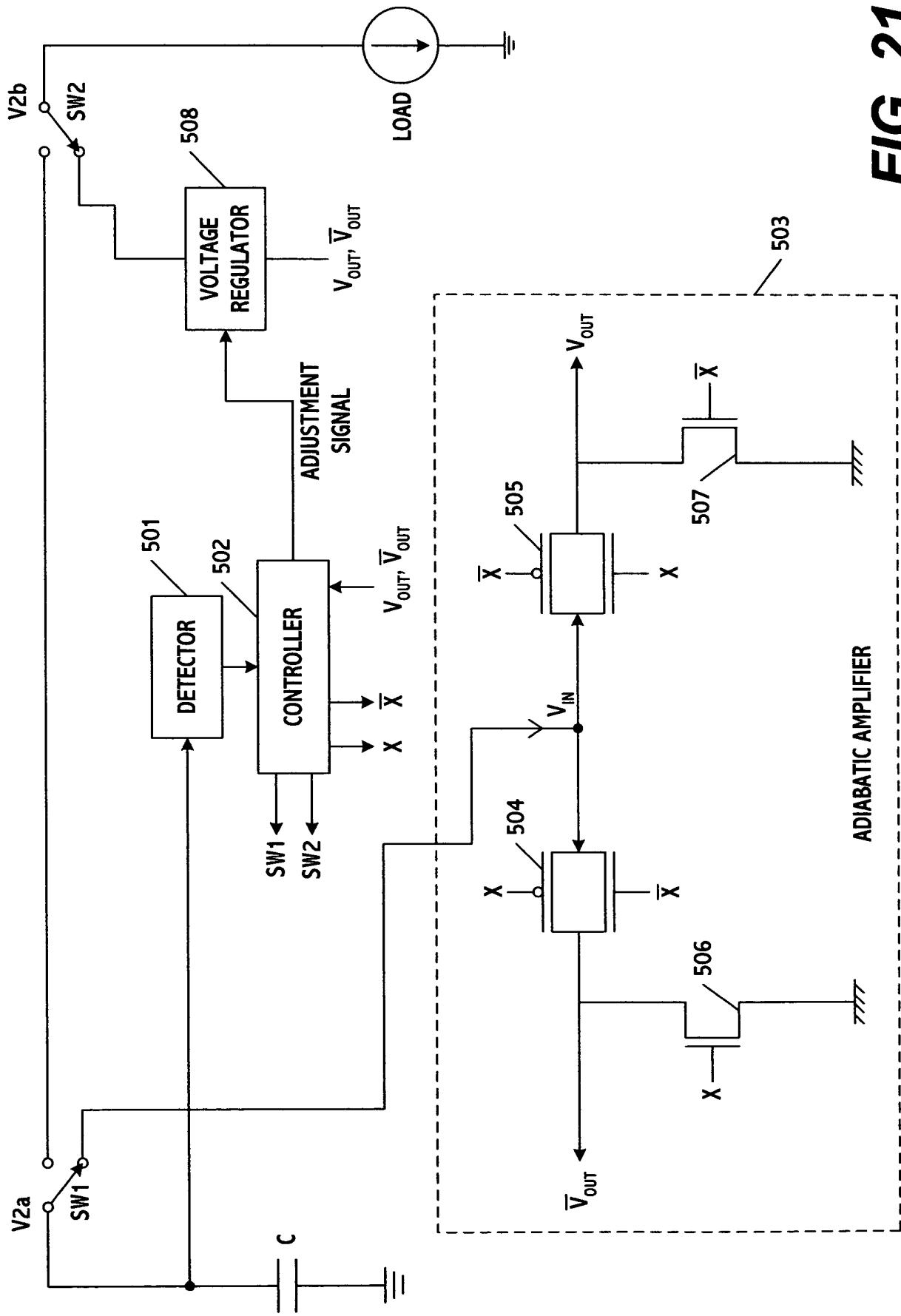


FIG. 20

FIG. 21



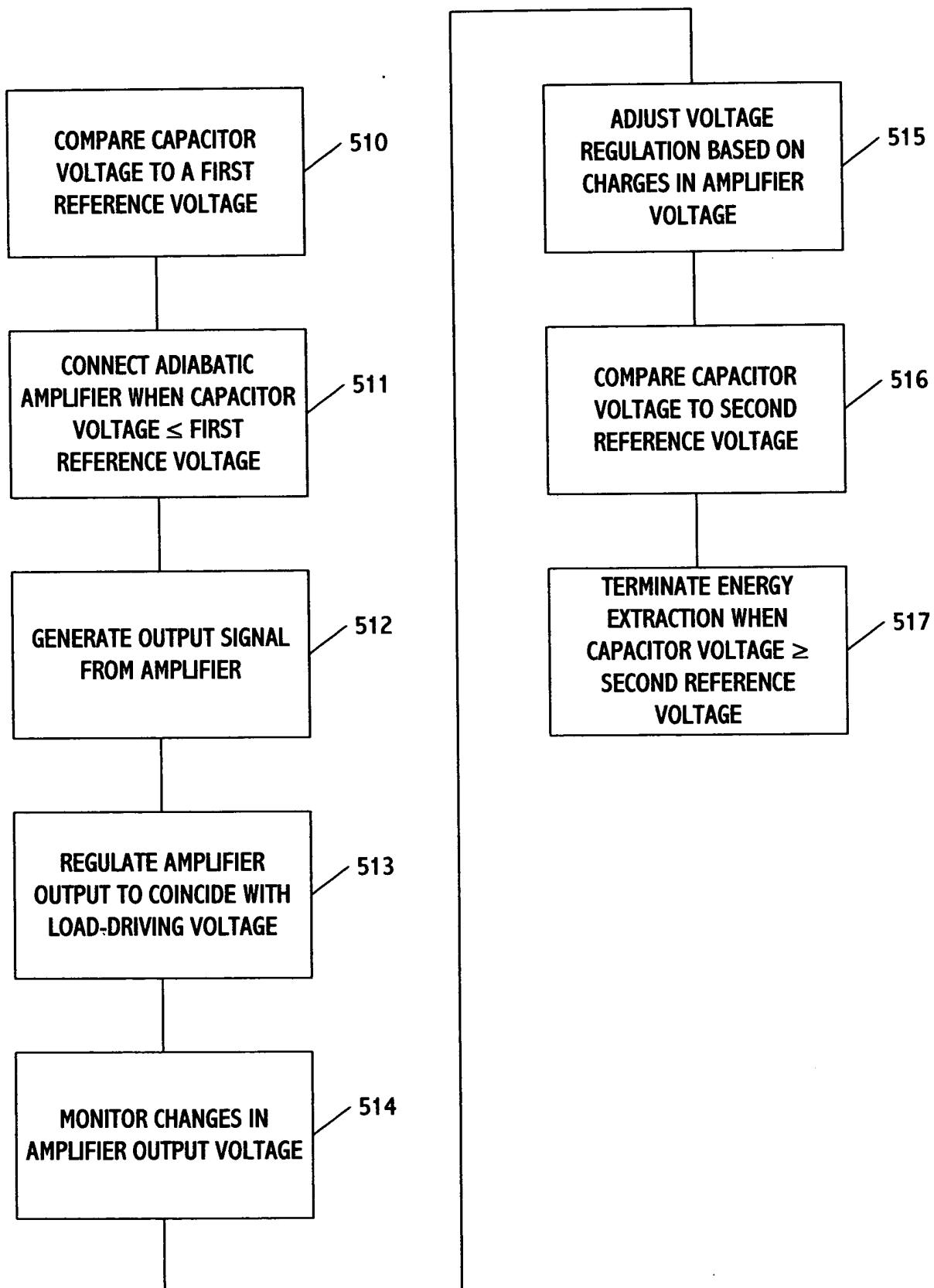


FIG. 22

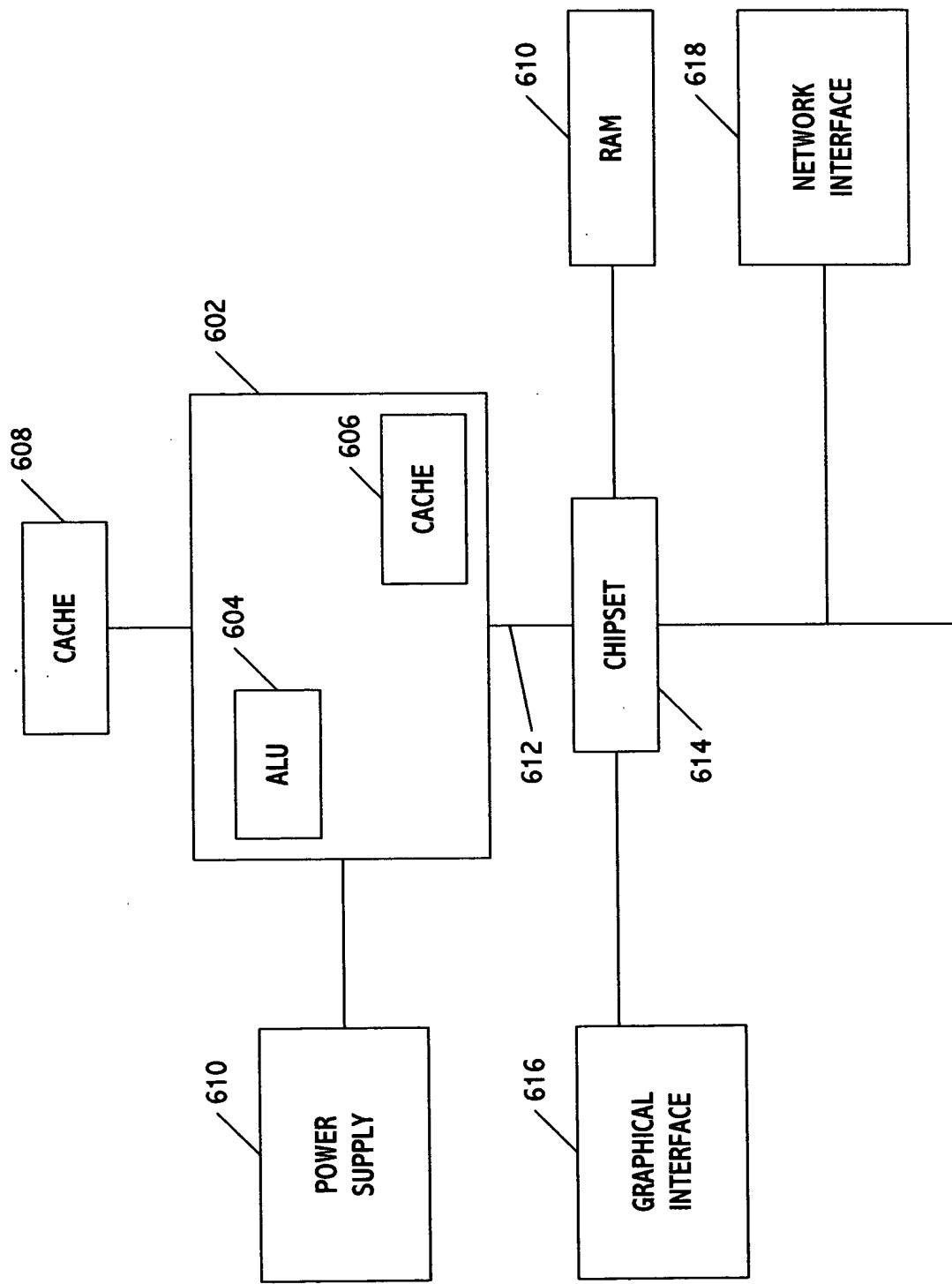


FIG. 23